






**Verfahren zur Erhöhung der Zug-, Bruch und Biegefestigkeit von Farbminen
sowie solche Minen enthaltende Farbstifte****Publication number:** JP2002539220T**Publication date:** 2002-11-19**Inventor:****Applicant:****Classification:**

- International: *B43K19/02; A61K8/00; A61K8/30; A61K8/34;
A61K8/37; A61K8/73; A61Q1/00; A61Q1/02;
A61Q1/04; A61Q1/06; A61Q1/10; C09D13/00;
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C09D13/00*

- European: *A61K8/73C; A61Q1/04; A61Q1/10; C09D13/00*

Application number: JP20000605686T 20000310**Priority number(s):** DE19991011748 19990316; WO2000EP02137
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 WO0055264 (A1)
 EP1169398 (A1)
 US6830610 (B1)
 EP1169398 (A0)
 DE19911748 (A1)

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Abstract not available for JP2002539220T

Abstract of corresponding document: **DE19911748**

The invention relates to a method for increasing the tensile, breaking and flexural strength of coloured leads. The method is characterised in that 1 to 50 percent by weight alkyl and/or hydroxyalkyl cellulose which are soluble in organic solvents and whose alkyl radicals can be straight-chained or branched are added to the lead substance. The invention also relates to coloured pencils containing said coloured leads.





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METHOD FOR INCREASING THE TENSILE, BREAKING AND FLEXURAL STRENGTH OF COLOURED LEADS AND COLOURED PENCILS CONTAINING THE SAME**Publication number:** WO0055264**Publication date:** 2000-09-21**Inventor:** BRUECHERT WERNER (DE); SPROGAR CHRISTIAN (DE); WEISS WILLY (DE)**Applicant:** SCHWAN STABILO COSMETICS GMBH (DE); BRUECHERT WERNER (DE); SPROGAR CHRISTIAN (DE); WEISS WILLY (DE)**Classification:**






- international: **B43K19/02; A61K8/00; A61K8/30; A61K8/34; A61K8/37; A61K8/73; A61Q1/00; A61Q1/02; A61Q1/04; A61Q1/06; A61Q1/10; C09D13/00; B43K19/00; A61K8/00; A61K8/30; A61K8/72; A61Q1/00; A61Q1/02; C09D13/00; (IPC1-7); C09D13/00; A61K7/027; A61K7/032**

- European: **A61K8/73C; A61Q1/04; A61Q1/10; C09D13/00**

Application number: WO2000EP02137 20000310**Priority number(s):** DE19991011748 19990316**Also published as:**

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Cited documents:

 EP0861657
 WO9511000
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